



*Town of Belmont*  
**Department of Public Works**  
*Highway • Recreation, Parks & Cemetery • Water*

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**WATER SYSTEM IMPROVEMENT PROGRAM  
PROGRESS REPORT FOR FISCAL YEAR 2018**

The former Board of Water Commissioners, now the Water Advisory Board, after a competitive process, selected Weston and Sampson Engineers, Inc. to perform a comprehensive evaluation of the water distribution system which serves the Town. The primary focus of the study was the water distribution system and its: age, condition, chronic water main break events and persistent water quality concerns. The study concluded that considerable work was necessary to correct problems and deficiencies and to ensure a continued supply of safe, clean drinking water to our customers with adequate quantities of water for fire protection both now and into the future. To achieve these goals, Weston and Sampson recommended that all unlined cast iron water main be replaced with a new, larger diameter, cement lined ductile iron pipe. Unlined cast iron pipe comprised approximately 41% of the system which serves about 60% of the population of Belmont. Considering system wide pipe age and condition and economic factors, it was recommended that this work be done in increments with a completion date 30 years after commencement. This plan was approved and initially funded by the 1995 Town Meeting. The 30 year plan is known as The Water System Improvement Program. This program is guided by a 20 year capital plan and currently funded with a combination of utilizing the Massachusetts Water Resources Authority (MWRA) Local Pipeline Assistance Program (LPAP), Local Water System Assistance Program (LWSAP), which both are no-interest loan funds, Municipal Bonds and an annual budget appropriation.

The Department of Public Works Water Division is pleased to present this report of the FY18 Water Main Replacement Program.

Water Main Replacement Program 2017

The FY 18 – 2017 “Payson Road” Capitol Water Main Replacement Project will consist of the streets listed below. This project will be funded using Capitol carryover funds from several previous water main projects.

- Payson Road  
Oakley Road to Belmont Street
- Indian Hill Road  
Old Middlesex Road to Benton Road
- Essex Road  
Old Middlesex Road to Benton Road
- Preble Gardens Road  
Oakley Road to Old Middlesex Road
- Old Middlesex Road  
Oakley Road to Benton Road
- Benton Road  
Oakley Road to Payson Road
- Lawndale Street  
Oakley Road to Payson Road
- Townsend Road  
Payson Road to Payson Road

The FY 18 – 2017 “Orphan Streets” Capitol Water Main Replacement Project will consist of the streets listed below. This project will be funded by utilizing our MWRA zero interest loan, Municipal bond and budget appropriation.

- Alma Avenue  
Bartlett Ave to Belmont Street
- Harriet Avenue  
Bartlett Ave to Belmont Street
- Williston Road  
Horne Road to Trapelo Road
- Louise Road  
Becket Road to Concord Ave
- Newton Street  
Belmont Street to Fairview Ave
- Ridge Road  
Belmont Street to White Street
- Branchaud Road  
Carleton Road to Washington Street
- Carleton Road  
Chester Road to Washington Street
- Alternate A
- Pinehurst Road  
Concord Avenue to Cul-de-sac

Since the inception of the Water System Improvement Program in 1995, approximately 29.15 miles of water main will have been replaced after the completion of the FY18 project by larger diameter ductile iron cement lined pipe with a service life expectancy of about 100 years. The Water System Improvement Program is intended to replace and upgrade 38 miles of water main out of a total of 91 miles of pipe.

Respectfully submitted,

Michael R. Bishop  
Water Division Manager